



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
401 M Street, S.W.  
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

**Paperwork Reduction Act Notice:** The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instruction and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington DC 20460. Do not send the form to this address.

**DATA MATRIX**

Date: 9/24/2001	EPA Reg No./ File Symbol 70506-6	Page 1 of 6
Applicant's/Registrant's Name and Address: United Phosphorus, Inc. 423 Riverview Plaza Trenton, NJ 08611	Product: Tengard SFR Termiticide/Insecticide	
Ingredient: Permethrin		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.1550	Product identity and composition	44841201	United Phosphorous, Inc. (UPI)	Own	
830.1600	Description of materials used to produce the product	44841201	UPI	Own	
830.1650	Discussion of formulation process	44841201	UPI	Own	
830.1670	Discussion of formation of impurities	44841201	UPI	Own	
830.1750	Certified limits	44841201	UPI	Own	
830.1800	Enforcement analytical method	44841201	UPI	Own	
830.6302	Color	44841201	UPI	Own	
830.6303	Physical state	44841201	UPI	Own	
830.6315	Flammability	44841201	UPI	Own	
830.6320	Corrosion characteristics	44841201	UPI	Own	
830.7000	pH	44841201	UPI	Own	
830.7100	Viscosity	44841201	UPI	Own	
830.7300	Density	44841201	UPI	Own	
870.1100 (81-1)	Acute oral toxicity	CITE-ALL	AGREVO, BONIDE, CLARKE, COOPERS, ECTO, ESTEB, FMC, MGK, MILLER, SPAH, VIRBAC, ZENECA	Pay	
870.1200 (81-2)	Acute dermal toxicity	CITE-ALL	AGREVO, BONIDE, CLARKE, COOPERS, ECTO, ESTEB, FMC, MGK, MILLER, SPAH, VIRBAC, ZENECA	Pay	
870.1300 (81-3)	Acute inhalation toxicity	CITE-ALL	AGREVO, BONIDE, CLARKE, COOPERS, ECTO, ESTEB, FMC, MGK, MILLER, SPAH, VIRBAC, ZENECA	Pay	

Signature <i>Elizabeth Anne Brown</i>	Name and Title Elizabeth Anne Brown, ChemReg International, Registration Agent	Date 09/24/01
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Date: 9/24/2001

EPA Reg No./ File Symbol 70506-6

Page 2 of 6

Applicant's/Registrant's Name and Address: United Phosphorus, Inc.  
423 Riverview Plaza  
Trenton, NJ 08611

Product:  
Tengard SFR Termiticide/Insecticide

Ingredient: Permethrin

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.2400 (81-4)	Eye irritation	CITE-ALL	AGREVO, BONIDE, CLARKE, COOPERS, ECTO, ESTEB, FMC, MGK, MILLER, SPAH, VIRBAC, ZENECA	Pay	
870.2500 (81-5)	Dermal irritation	CITE-ALL	AGREVO, BONIDE, CLARKE, COOPERS, ECTO, ESTEB, FMC, MGK, MILLER, SPAH, VIRBAC, ZENECA	Pay	
870.2600 (81-6)	Dermal sensitization	CITE-ALL	AGREVO, BONIDE, CLARKE, COOPERS, ECTO, ESTEB, FMC, MGK, MILLER, SPAH, VIRBAC, ZENECA	Pay	
91 Series	Efficacy – termites, ticks, fleas, flies, spiders, scorpions, cockroaches, fire ants, bees, wasps	CITE ALL	Zeneca Ag Products, FMC, Agrevo	Pay	
GENERIC DATA					
71-1(a)	Acute avian oral – quail	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
71-2(a)	Acute avian dietary – quail	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
71-2(b)	Acute avian dietary – duck	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
71-4(a)	Avian repro. – quail	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
71-4(b)	Avian repro. – duck	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
72-1(a)	Acute Fish toxicity – bluegill	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
72-1(b)	Acute Fish toxicity – bluegill	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	

Signature

*Elizabeth Anne Brown*

Name and Title

Elizabeth Anne Brown, ChemReg International,  
Registration Agent

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Applicant's/Registrant's Name and Address: United Phosphorus, Inc. 423 Riverview Plaza Trenton, NJ 08611	Product: Tengard SFR Termiticide/Insecticide	
Ingredient: Permethrin		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
72-1(c)	Acute Fish toxicity – trout	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
72-1(d)	Acute Fish toxicity – trout	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
72-2(a)	Acute Invertebrate toxicity	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
72-2(b)	Acute Invertebrate toxicity	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
72-3(a)	Est/marinetoxicity – fish	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
72-3(b)	Est/marine toxicity – mollusk	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
72-3(c)	Est/marine toxicity – shrimp	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
72-3(e)	Est/marine toxicity – mollusk	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
72-3(f)	Est/marine toxicity - shrimp	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
72-4(b)	Life cycle – invertebrates	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
72-3(d)	Est/marine toxicity – fish	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
72-5	Fish-life cycle toxicity	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
72-6	Aquatic organism accumulation	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
870.6200 (81-8-SS) (82-7-SS)	Neurotoxicity screening battery	CITE-ALL	FMC, ZENECA	Pay	
870.3150 (82-1)	90-day feeding studies-rodent and nonrodent	CITE-ALL	FMC, ZENECA	Pay	
870.3200 (82-2)	21-day dermal – rabbit	CITE-ALL	ZENECA	Pay	
870.4100 (83-1)	Chronic toxicity- rodent and nonrodent	CITE-ALL	FMC, ZENECA	Pay	
870.4200 (83-2)	Carcinogenicity testing- rat and mouse	CITE-ALL	FMC, ZENECA	Pay	
870.3700 (83-3)	Teratogenicity- 2 species	CITE-ALL	FMC, ZENECA	Pay	
870.3800 (83-4)	Reproduction- 2 generation	CITE-ALL	FMC, ZENECA	Pay	
870.5265 (84-2(a))	Gene mutation – Ames	CITE-ALL	ZENECA	Pay	
870.5375 (84-2(b))	Structural chromosomal aberration	CITE-ALL	ZENECA	Pay	
84-4	Other genotoxic effects	CITE-ALL	ZENECA	Pay	
870.72000 (86-1)	Domestic animal safety	CITE-ALL	Data owners not on DSL	Pay	

Signature <i>Elizabeth Anne Brown</i>	Name and Title Elizabeth Anne Brown, ChemReg International, Registration Agent	Date 09/24/01
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Ingredient: Permethrin		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.2100 (132-1(a))	Foliar residue dissipation	CITE-ALL	Data owners not on DSL, offer to pay will be made to the Permethrin Task Force	Pay	
875.2200 (132-1(b))	Soil residue dissipation	CITE-ALL	FMC, ZENECA	Pay	
875.2400 (133-3)	Dermal passive dosimetry		UPI is a member of the Ag Reentry TF	Own	
875.2500 (133-4)	Inhalation passive dosimetry		UPI is a member of the Ag Reentry TF	Own	
141-1	Honey bee acute contact	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
141-2	Honey bee residue	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
161-1	Hydrolysis	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
161-2	Photodeg - water	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
161-3	Photodeg - soil	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
162-1	Aerobic soil metabolism	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
162-2	Anaerobic soil metabolism	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
162-3	Anaerobic aquatic metabolism	CITE-ALL	PERMETHRIN JOINT DATA DEVELOPMENT PROGRAM	Pay	
162-4	Aerobic aquatic metabolism	CITE-ALL	PERMETHRIN JOINT DATA DEVELOPMENT PROGRAM	Pay	
163-1	Leaching/adsorption/desorption	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
164-1	Terrestrial field dissipation	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
164-2	Aquatic field dissipation	CITE-ALL	PERMETHRIN JOINT DATA DEVELOPMENT PROGRAM	Pay	
165-4	Bioaccumulation in fish	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
860.1100 (171-2)	Chemical identity	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
860.1200 (171-3)	Directions for use	CITE ALL	FMC, ZENECA	Pay	
860.1300 (171-4(a))	Nature of the residue-plants	CITE-ALL	FMC, ZENECA	Pay	

Signature

*Elizabeth Anne Brown*

Name and Title

Elizabeth Anne Brown, ChemReg International,  
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Date

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Date: 9/24/2001	EPA Reg No./ File Symbol 70506-6	Page 5 of 6
Applicant's/Registrant's Name and Address: United Phosphorus, Inc. 423 Riverview Plaza Trenton, NJ 08611	Product: Tengard SFR Termiticide/Insecticide	
Ingredient: Permethrin		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1300 (171-4(b))	Nature of the residue-animals	CITE-ALL	FMC, ZENECA	Pay	
860.1340 (171-4(c,d))	Residue analytical method	CITE-ALL	FMC, ZENECA	Pay	
860.1360 (171-4(m))	Multiresidue method	CITE-ALL	FMC, ZENECA	Pay	
860.1380 (171-4(e))	Storage stability data	CITE-ALL	FMC, ZENECA	Pay	
860.1500 (171-4(k))	Crop field trials	CITE-ALL	FMC, ZENECA	Pay	
860.1520 (171-4(l))	Processed food/feed	CITE-ALL	FMC, ZENECA	Pay	
860.1480 (171-4(j))	Meat/milk/poultry/eggs	CITE-ALL	FMC, ZENECA	Pay	
860.1460 (171-4(i))	Food handling	CITE-ALL	FMC, ZENECA	Pay	
860.1550 (171-6)	Proposed tolerances	CITE-ALL	FMC, ZENECA	Pay	
860.1560 (171-7)	Reasonable grounds in support of the petition	CITE-ALL	FMC, ZENECA	Pay	
860.1650 (171-13)	Submittal of analytical reference standard	CITE-ALL	FMC, ZENECA	Pay	
860.1850 (165-10)	Confined accumulation in rotational crops	CITE-ALL	FMC, ZENECA	Pay	
860.1900 (165-2)	Field Accumulation in rotational crops	CITE-ALL	FMC, ZENECA	Pay	
840.1100 (201-1)	Spray droplet size spectrum		UPI is a member of the Spray Drift TF	Own	
840.1200 (202-1)	Spray drift field deposition		UPI is a member of the Spray Drift TF	Own	
875.1100 (231)	Dermal exposure - outdoor	CITE-ALL	UPI is a member of the Outdoor Residential Exposure TF	Own	
875.1300 (232)	Inhalation exposure - outdoor	CITE-ALL	UPI is a member of the Outdoor Residential Exposure TF	Own	
875.1200 (233)	Dermal exposure -indoor	CITE-ALL	Data owners not on DSL, offer to pay will be made to the Indoor Residential Exposure TF	Pay	

Signature

Elizabeth Anne Brown

Name and Title

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Date: 9/24/2001	EPA Reg No./ File Symbol 70506-6	Page 6 of 6
Applicant's/Registrant's Name and Address: United Phosphorus, Inc. 423 Riverview Plaza Trenton, NJ 08611	Product: Tengard SFR Termiticide/Insecticide	
Ingredient: Permethrin		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.1400 (234)	Inhalation exposure - indoor	CITE-ALL	Data owners not on DSL, offer to pay will be made to the Indoor Residential Exposure TF	Pay	
122-1	Terrestrial plant toxicity	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
122-2	Aquatic plant toxicity	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
Special Studies	Studies to evaluate ecological risk	CITE-ALL	Pyrethroid Working Group	Pay	

**Footnotes:** Abbreviations used in the "Submitter" column include:

AGREVO = AGREVO ENVIRONMENTAL HEALTH/AVENTIS ENVIR. HEALTH

ARTF= AG RENTRY TASK FORCE (BEVERIDGE & DIAMOND, LLP, Agents)

BONIDE = BONIDE PRODUCTS INC

CLARKE = CLARKE MOSQUITO CONTROL PRODUCTS INC

COOPERS = COOPERS ANIMAL HEALTH INC

ECTO = ECTO DEVELOPMENT CORP

ESTEB = ESTEB SURGICAL SUPPLY CO

FMC = FMC CORP AGRICULTURAL PRODUCTS GROUP

MGK = MCLAUGHLIN GORMLEY KING CO

MILLER = MILLER W. C. CHEM CO

SANDOZ = SANDOZ AGRO INC

SPAH = SCHERING-PLOUGH ANIMAL HEALTH CORPORATION

VIRBAC = VIRBAC AH, INC.

ZENECA = ZENECA AG PRODUCTS/Syngenta

Signature <i>Elizabeth Anne Brown</i>	Name and Title Elizabeth Anne Brown, ChemReg International, Registration Agent	Date 09/24/01
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DATA MATRIX

Date: 03/09/01	EPA Reg No./ File Symbol 70506-6	Page 1 of 7
Applicant's/Registrant's Name and Address: United Phosphorous, Inc. 740 Springdale Dr., Exton, PA 19341	Product: Tengard SFR Termiticide/Insecticide	
Ingredient: Permethrin		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.1550	Product identity and composition	44841201	United Phosphorous, Inc. (UPI)	Own	
830.1600	Description of materials used to produce the product	44841201	UPI	Own	
830.1650	Discussion of formulation process	44841201	UPI	Own	
830.1670	Discussion of formation of impurities	44841201	UPI	Own	
830.1750	Certified limits	44841201	UPI	Own	
830.1800	Enforcement analytical method	44841201	UPI	Own	
830.6302	Color	44841201	UPI	Own	
830.6303	Physical state	44841201	UPI	Own	
830.6315	Flammability	44841201	UPI	Own	
830.6320	Corrosion characteristics	44841201	UPI	Own	
830.7000	pH	44841201	UPI	Own	
830.7100	Viscosity	44841201	UPI	Own	
830.7300	Density	44841201	UPI	Own	
870.1100 (81-1)	Acute oral toxicity	CITE-ALL	AGREVO, BONIDE, CLARKE, COOPERS, ECTO, ESTEB, FMC, MGK, MILLER, SPAH, VIRBAC, ZENECA	Pay	
870.1200 (81-2)	Acute dermal toxicity	CITE-ALL	AGREVO, BONIDE, CLARKE, COOPERS, ECTO, ESTEB, FMC, MGK, MILLER, SPAH, VIRBAC, ZENECA	Pay	
870.1300 (81-3)	Acute inhalation toxicity	CITE-ALL	AGREVO, BONIDE, CLARKE, COOPERS, ECTO, ESTEB, FMC, MGK, MILLER, SPAH, VIRBAC, ZENECA	Pay	

Signature 	Name and Title Robert G. Butz, ChemReg International, Registration Agent	Date 03/09/01
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Ingredient: Permethrin		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.2400 (81-4)	Eye irritation	CITE-ALL	AGREVO, BONIDE, CLARKE, COOPERS, ECTO, ESTEB, FMC, MGK, MILLER, SPAH, VIRBAC, ZENECA	Pay	
870.2500 (81-5)	Dermal irritation	CITE-ALL	AGREVO, BONIDE, CLARKE, COOPERS, ECTO, ESTEB, FMC, MGK, MILLER, SPAH, VIRBAC, ZENECA	Pay	
870.2600 (81-6)	Dermal sensitization	CITE-ALL	AGREVO, BONIDE, CLARKE, COOPERS, ECTO, ESTEB, FMC, MGK, MILLER, SPAH, VIRBAC, ZENECA	Pay	
91 Series	Efficacy – termites, ticks, fleas, flies, spiders, scorpions, cockroaches, fire ants, bees, wasps	CITE ALL	Zeneca Ag Products, FMC, Agrevo	Pay	
GENERIC DATA					
71-1(a)	Acute avian oral – quail	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
71-2(a)	Acute avian dietary – quail	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
71-2(b)	Acute avian dietary – duck	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
71-4(a)	Avian repro. – quail	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
71-4(b)	Avian repro. – duck	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
72-1(a)	Acute Fish toxicity – bluegill	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
72-1(b)	Acute Fish toxicity – bluegill	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	

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Ingredient: Permethrin		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
72-1(c)	Acute Fish toxicity – trout	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
72-1(d)	Acute Fish toxicity – trout	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
72-2(a)	Acute Invertebrate toxicity	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
72-2(b)	Acute Invertebrate toxicity	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
72-3(a)	Est/marinetoxicity – fish	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
72-3(b)	Est/marine toxicity – mollusk	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
72-3(c)	Est/marine toxicity – shrimp	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
72-3(e)	Est/marine toxicity – mollusk	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
72-3(f)	Est/marine toxicity - shrimp	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
72-4(b)	Life cycle – invertebrates	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
72-3(d)	Est/marine toxicity – fish	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
72-5	Fish-life cycle toxicity	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
72-6	Aquatic organism accumulation	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
870.6200 (81-8-SS) (82-7-SS)	Neurotoxicity screening battery	CITE-ALL	FMC, ZENECA	Pay	
870.3150 (82-1)	90-day feeding studies-rodent and nonrodent	CITE-ALL	FMC, ZENECA	Pay	
870.3200 (82-2)	21-day dermal – rabbit	CITE-ALL	ZENECA	Pay	
870.4100 (83-1)	Chronic toxicity- rodent and nonrodent	CITE-ALL	FMC, ZENECA	Pay	
870.4200 (83-2)	Carcinogenicity testing- rat and mouse	CITE-ALL	FMC, ZENECA	Pay	
870.3700 (83-3)	Teratogenicity- 2 species	CITE-ALL	FMC, ZENECA	Pay	
870.3800 (83-4)	Reproduction- 2 generation	CITE-ALL	FMC, ZENECA	Pay	
870.5265 (84-2(a))	Gene mutation – Ames	CITE-ALL	ZENECA	Pay	
870.5375 (84-2(b))	Structural chromosomal aberration	CITE-ALL	ZENECA	Pay	
870.7200 (86-1)	Other genotoxic effects	CITE-ALL	ZENECA	Pay	
870.7200 (86-1)	Domestic animal safety	CITE-ALL	Data owners not on DSL	Pay	

Signature <i>Robert G. Butz</i>	Name and Title Robert G. Butz, ChemReg International, Registration Agent	Date 03/09/01
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DATA MATRIX

Date: 03/09/01	EPA Reg No./ File Symbol 70506-6	Page 4 of 7
Applicant's/Registrant's Name and Address: United Phosphorous, Inc. 740 Springdale Dr., Exton, PA 19341	Product: Tengard SFR Termiticide/Insecticide	
Ingredient: Permethrin		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.2100 (132-1(a))	Foliar residue dissipation	CITE-ALL	Data owners not on DSL, offer to pay will be made to the Permethrin Task Force	Pay	
875.2200 (132-1(b))	Soil residue dissipation	CITE-ALL	FMC, ZENECA	Pay	
875.2400 (133-3)	Dermal passive dosimetry		UPI is a member of the Ag Reentry TF	Own	
875.2500 (133-4)	Inhalation passive dosimetry		UPI is a member of the Ag Reentry TF	Own	
141-1	Honey bee acute contact	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
141-2	Honey bee residue	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
161-1	Hydrolysis	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
161-2	Photodeg - water	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
161-3	Photodeg - soil	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
162-1	Aerobic soil metabolism	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
162-2	Anaerobic soil metabolism	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
162-3	Anaerobic aquatic metabolism	CITE-ALL	PERMETHRIN JOINT DATA DEVELOPMENT PROGRAM	Pay	
162-4	Aerobic aquatic metabolism	CITE-ALL	PERMETHRIN JOINT DATA DEVELOPMENT PROGRAM	Pay	
163-1	Leaching/adsorption/desorption	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
164-1	Terrestrial field dissipation	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
164-2	Aquatic field dissipation	CITE-ALL	PERMETHRIN JOINT DATA DEVELOPMENT PROGRAM	Pay	
165-4	Bioaccumulation in fish	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
860.1100 (171-2)	Chemical identity	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
860.1200 (171-3)	Directions for use	CITE ALL	FMC, ZENECA	Pay	
860.1300 (171-4(a))	Nature of the residue-plants	CITE-ALL	FMC, ZENECA	Pay	

Signature 	Name and Title Robert G. Butz, ChemReg International, Registration Agent	Date 03/09/01
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## DATA MATRIX

Date: 03/09/01	EPA Reg No./ File Symbol 70506-6	Page 5 of 7
Applicant's/Registrant's Name and Address: United Phosphorous, Inc. 740 Springdale Dr., Exton, PA 19341	Product: Tengard SFR Termiticide/Insecticide	
Ingredient: Permethrin		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1300 (171-4(b))	Nature of the residue-animals	CITE-ALL	FMC, ZENECA	Pay	
860.1340 (171-4(c,d))	Residue analytical method	CITE-ALL	FMC, ZENECA	Pay	
860.1360 (171-4(m))	Multiresidue method	CITE-ALL	FMC, ZENECA	Pay	
860.1380 (171-4(e))	Storage stability data	CITE-ALL	FMC, ZENECA	Pay	
860.1500 (171-4(k))	Crop field trials	CITE-ALL	FMC, ZENECA	Pay	
860.1520 (171-4(l))	Processed food/feed	CITE-ALL	FMC, ZENECA	Pay	
860.1480 (171-4(j))	Meat/milk/poultry/eggs	CITE-ALL	FMC, ZENECA	Pay	
860.1460 (171-4(i))	Food handling	CITE-ALL	FMC, ZENECA	Pay	
860.1550 (171-6)	Proposed tolerances	CITE-ALL	FMC, ZENECA	Pay	
860.1560 (171-7)	Reasonable grounds in support of the petition	CITE-ALL	FMC, ZENECA	Pay	
860.1650 (171-13)	Submittal of analytical reference standard	CITE-ALL	FMC, ZENECA	Pay	
860.1850 (165-10)	Confined accumulation in rotational crops	CITE-ALL	FMC, ZENECA	Pay	
860.1900 (165-2)	Field Accumulation in rotational crops	CITE-ALL	FMC, ZENECA	Pay	
840.1100 (201-1)	Spray droplet size spectrum		UPI is a member of the Spray Drift TF	Own	
840.1200 (202-1)	Spray drift field deposition		UPI is a member of the Spray Drift TF	Own	
875.1100 (231)	Dermal exposure - outdoor	CITE-ALL	UPI is a member of the Outdoor Residential Exposure TF	Own	
875.1300 (232)	Inhalation exposure - outdoor	CITE-ALL	UPI is a member of the Outdoor Residential Exposure TF	Own	
875.1200 (235)	Dermal exposure -indoor	CITE-ALL	Data owners not on DSL, offer to pay will be made to the Indoor Residential Exposure TF	Pay	

Signature 	Name and Title Robert G. Butz, ChemReg International, Registration Agent	Date 03/09/01
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## DATA MATRIX

Date: 03/09/01	EPA Reg No./ File Symbol 70506-6	Page 6 of 7
Applicant's/Registrant's Name and Address: United Phosphorous, Inc. 740 Springdale Dr., Exton, PA 19341	Product: Tengard SFR Termiticide/Insecticide	
Ingredient: Permethrin		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.1400 (234)	Inhalation exposure - indoor	CITE-ALL	Data owners not on DSL, offer to pay will be made to the Indoor Residential Exposure TF	Pay	
122-1	Terrestrial plant toxicity	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
122-2	Aquatic plant toxicity	CITE-ALL	FMC, MILLER, SPAH, ZENECA	Pay	
Special Studies	Studies to evaluate ecological risk	CITE-ALL	Pyrethroid Working Group	*	

## Footnotes:

\* United Phosphorous Inc. is joining the Pyrethroid Working Group

Abbreviations used in the "Submitter" column include:

AGREVO = AGREVO ENVIRONMENTAL HEALTH/AVENTIS ENVIR. HEALTH

ARTF= AG RENTRY TASK FORCE (BEVERIDGE & DIAMOND, LLP, Agents)

BONIDE = BONIDE PRODUCTS INC

CLARKE = CLARKE MOSQUITO CONTROL PRODUCTS INC

COOPERS = COOPERS ANIMAL HEALTH INC

ECTO = ECTO DEVELOPMENT CORP

ESTEB = ESTEB SURGICAL SUPPLY CO

FMC = FMC CORP AGRICULTURAL PRODUCTS GROUP


MGK = MCLAUGHLIN GORMLEY KING CO

MILLER = MILLER W C CHEM CO

SANDQZ = SANDQZ AGRO INC

SPAH = SCHERING PLOUGH ANIMAL HEALTH CORPORATION

VIRBAC = VIRBAC AH, INC.

Signature 	Name and Title Robert G. Butz, ChemReg International, Registration Agent	Date 03/09/01
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## DATA MATRIX

Date: 03/09/01	EPA Reg No./ File Symbol 70506-6	Page 7 of 7
Applicant's/Registrant's Name and Address: United Phosphorous, Inc. 740 Springdale Dr., Exton, PA 19341	Product: Tengard SFR Termiticide/Insecticide	
Ingredient: Permethrin		

ZENECA = ZENECA AG PRODUCTS/Syngenta

B.D.

T.O.H.E.

Signature <i>Robert G. Butz</i>	Name and Title Robert G. Butz, ChemReg International, Registration Agent	Date 03/09/01
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DATA MATRIX

Date <u>5/27/99</u>		EPA Reg No./File Symbol <u>70506-A</u>		Page 1 of 3	
Applicant's/Registrant's Name & Address United Phosphorous, Inc. 740 Springdale Dr., Exton, PA 19341		Product Tengard SFR Termiticide/Insecticide			
Ingredient <u>Permethrin</u>					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.1550	Product identity and composition		UPI	own	
830.1600	Description of materials used to produce the product		UPI	own	
830.1650	Description of formulation process		UPI	own	
830.1670	Discussion of formation of impurities		UPI	own	
830.1750	Certified limits		UPI	own	
830.1800	Enforcement analytical method		UPI	own	
830.6303	Physical state		UPI	own	
830.6315	Flammability		UPI	own	
830.6319	Miscibility		UPI	own	
Signature <u>[Signature]</u>			Name and Title Koshy Ittyeipe, President		Date <u>5/27/99</u>









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DATA MATRIX

Date <u>5/27/99</u>		EPA Reg No./File Symbol <u>70506-A</u>		Page 3 of 3	
Applicant's/Registrant's Name & Address United Phosphorous, Inc. 740 Springdale Dr., Exton, PA 19341		Product Tengard SFR Termiticide/Insecticide			
Ingredient <u>Permethrin</u>					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
81-2	Dermal toxicity	41192103	FMC	pay	
81-3	Inhalation toxicity	40281501	FMC	pay	
		41192105	FMC	pay	
81-4	Eye irritation	40378502	FMC	pay	
		44133301	FMC	pay	
81-5	Dermal irritation	41192101	FMC	pay	
		43602501	FMC	pay	
		44133302	FMC	pay	
81-6	Dermal sensitization	40281502	FMC	pay	
		41192102	FMC	pay	
81-1	Oral toxicity	41192104	FMC	pay	
	Air monitoring study	40198401	FMC	pay	
	Air monitoring study - follow-up	40266401	FMC	pay	
Signature <u>[Signature]</u>			Name and Title Koshy Ittyeipe, President		Date <u>5/27/99</u>

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**DATA MATRIX ADDRESSING PRODUCT-SPECIFIC REQUIREMENTS OF DATA CALL-IN FOR PRODUCTS CONTAINING PERMETHRIN**

Date: Feb. 12, 2010	EPA Reg No./ File Symbol: 70506-6	Page 1 of 2
Applicant's/Registrant's Name and Address: United Phosphorus, Inc. 630 Freedom Business Center King of Prussia, PA 19406	Product: Tengard SFR One-Shot Insecticide	
Ingredient: Permethrin		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
<b>PRODUCT SPECIFIC</b>					
830.1550, 830.1600, 830.1650, 830.1670	Product identity, composition/Description of materials Used to Produce the Product/Description of Formulation Process/Discussion of Formation of Impurities	44841301	UPI	Own	
830.1750	Certification of Limits	44841301	UPI	Own	
830.1800	Analytical Method	44841201	UPI	Own	
830.6303	Physical state	44841301	UPI	Own	
830.6314	Oxidizing/Reducing action			Not required	Product does not contain oxidizing or reducing agents.
830.6315	Flammability			Not required	Product does not contain combustible liquids
830.6316	Explosibility			Not required	Product does not contain explosive ingredients
830.6317	Storage Stability		UPI	Own	Submitting with this package
830.6319	Miscibility			Not required	Product is a solid and diluted with petroleum solvents.
830.6320	Corrosion Characteristics		UPI	Own	Submitting with this package
830.6321	Dielectric Breakdown Voltage			Not required	Product is not used around electrical equipment.
830.7000	pH	44841301	UPI	Own	
830.7100	Viscosity	44841301	UPI	Own	
830.7300	Density, bulk density, specific gravity	44841301	UPI	Own	
870.1100	Acute oral toxicity	47793501	FMC	Own	
870.1200	Acute dermal toxicity - rat	47793502	FMC	Own	

Signature *R.A. Clemmer*Name and Title  
Rebecca A. Clemmer, Regulatory ManagerDate  
2/12/10





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**DATA MATRIX ADDRESSING PRODUCT-SPECIFIC REQUIREMENTS OF DATA CALL-IN FOR PRODUCTS CONTAINING PERMETHRIN**

Date: Feb. 12, 2010

EPA Reg No./ File Symbol: 70506-6

Page 1 of 2

Applicant's/Registrant's Name and Address: United Phosphorus, Inc.  
630 Freedom Business Center  
King of Prussia, PA 19406

Product: Tengard SFR One-Shot Insecticide

Ingredient: Permethrin

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
<b>PRODUCT SPECIFIC</b>					
830.1550, 830.1600, 830.1650, 830.1670	Product identity, composition/Description of materials Used to Produce the Product/Description of Formulation Process/Discussion of Formation of Impurities	44841301	UPI	Own	
830.1750	Certification of Limits	44841301	UPI	Own	
830.1800	Analytical Method	44841201	UPI	Own	
830.6303	Physical state	44841301	UPI	Own	
830.6314	Oxidizing/Reducing action			Not required	Product does not contain oxidizing or reducing agents.
830.6315	Flammability			Not required	Product does not contain combustible liquids
830.6316	Explosibility			Not required	Product does not contain explosive ingredients
830.6317	Storage Stability		UPI	Own	Submitting with this package
830.6319	Miscibility			Not required	Product is a solid and diluted with petroleum solvents.
830.6320	Corrosion Characteristics		UPI	Own	Submitting with this package
830.6321	Dielectric Breakdown Voltage			Not required	Product is not used around electrical equipment.
830.7000	pH	44841301	UPI	Own	
830.7100	Viscosity	44841301	UPI	Own	
830.7300	Density, bulk density, specific gravity	44841301	UPI	Own	
870.1100	Acute oral toxicity	47793501	FMC	Own	
870.1200	Acute dermal toxicity - rat	47793502	FMC	Own	

Signature

Name and Title

Rebecca A. Clemmer, Regulatory Manager

Date

2/12/10





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## DATA MATRIX

Date March 13, 2008	EPA Reg No./ File Symbol 70506-6	Page 1 of 3
Applicant's/Registrant's Name and Address: United Phosphorus, Inc. 630 Freedom Business Center, Suite 402 King of Prussia, PA 19406	Product: Tengard SFR One Shot	
Ingredient: permethrin		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
61-1 (830.1550)	Chemical identity	44841301	United Phosphorus, Inc.	own	
830.1600	Descr. of materials used to produce the product	44841301	United Phosphorus, Inc.	own	
830.1650	Description of formulation process	44841301	United Phosphorus, Inc.	own	
62-2 (830.1750)	Certification of limits	44841301	United Phosphorus, Inc.	own	
63-3 (830.6303)	Physical state	44841301	United Phosphorus, Inc.	own	
830.6315	Flammability	44841301	United Phosphorus, Inc.	own	
63-12 (830.7000)	pH	44841301	United Phosphorus, Inc.	own	
830.7100	Viscosity	44841301	United Phosphorus, Inc.	own	
63-7 (830.7300)	Density/relative density/bulk density	44841301	United Phosphorus, Inc.	own	
<b>GENERIC DATA REQUIREMENTS</b>			Bonide Products; Coopers Animal Health; Syngenta Crop Protection, Delta Analytical Corp.; The Ortho Business Group; Farnam Companies; FMC Corp; Nott Products Co; Chemtura Corp.; Bayer Env. Science; Realex; Chase Products Co.; Whitmire Micro-Gen; Univar USA; Prentiss Inc; Value Gardens Supply; Schering-Plough; Southern Ag. Insecticides; Green Light Company; McLaughlin Gormely King; IBC Manufacturing; Fuller System; W.F. Young; PBI/Gordon; Virbac AH; Regguide; Hartz Mountain; Happy Jack; Miller W.C.; Lynwood Labs; ABC Coumpounding; Boehringer Ingelheim Vetmedica; Pet Chemicals; S.C. Johnson; Amvac Chemical;	pay	

Signature <i>RA. Clemmer</i>	Name and Title Rebecca A. Clemmer/Regulatory Manager	Date 3/13/08
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## DATA MATRIX

Date March 13, 2008	EPA Reg No./ File Symbol 70506-6	Page 2 of 3
Applicant's/Registrant's Name and Address: United Phosphorus, Inc. 630 Freedom Business Center, Suite 402 King of Prussia, PA 19406	Product: Tengard SFR One Shot	
Ingredient: permethrin		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			Summit Chemical; Cessco; IQ Products; Voluntary Purchasing Groups; Clarke Mosquito Control; United Industries; Safeguard Chemical; H.R. McLane; Chemsisco; Fiebing Company; Sungro Chemicals; Bayer Healthcare; Western Farm Service; Speer Products; Gil Mfg; Brazos Associates; Sandoz Agro; Phaeton Corp.; Landis International; Aerochem; Y-TEX; Drummond American; Enforcer Products; Safer; Quest Chemical; Insecta Marketing; Burlington Scientific; Regwest Company; Steven E. Rogosheske; Hilton Head Laboratories; Scientific Coordination; BASF Sparks; LHB Industries; Lewis & Harrison; Control Solutions; Rusty Millar; CRC Industries; Valent USA; Lineguard; Management Contract Services; Arysta Lifescience; Ecto Development; Sherwin-Williams; Bengal Products; Gharda USA; Premium Environmental Products; Biologic; Riap Chemical; Bayer Advanced; Plexus Services; Star Horse Products; Valent Biosciences; Sapstain Industry Group; Registrations by Design; A.N.T.S. Research & Development; IDC Company; Pro Products; Travel Medicine; Osmose New Zealand; The		

Signature <i>R.A. Clemmer</i>	Name and Title Rebecca A. Clemmer/Regulatory Manager	Date 3/13/08
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## DATA MATRIX

Date March 13, 2008	EPA Reg No./ File Symbol 70506-6	Page 3 of 3
Applicant's/Registrant's Name and Address: United Phosphorus, Inc. 630 Freedom Business Center, Suite 402 King of Prussia, PA 19406	Product: Tengard SFR One Shot	
Ingredient: permethrin		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			Bug Stomper of LA; Product & Regulatory Associates; Bio-Planet Products; Buzz-Off Insect Shield; Residential Exposure JV; Regguide; Arch Wood Protection; SCIREG; Ag. Handlers Exposure TF; Nova Biogenetics; Technology Sciences Group; Gro-Pro LLC; Starensier; Health & Environmental Horizons; Traveler's Supply; Eastern Chemical; Product & Regulatory Associates; Summit Agro USA; Summit Vetpharm; International Textile Group; Heather R. Bjornson		

Signature <i>R.A. Clemmer</i>	Name and Title Rebecca A. Clemmer/Regulatory Manager	Date 3/13/08
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